

Manage Events High Level Functional Description

The EVT will aid in development and integration testing and support health and safety analysis during spacecraft operations. The EVT will be the master control for all event messages created within the CCS. This will allow for enhanced maintainability and increased modularity for future extensions or changes to the system.

The EVT will perform the following functionality:

- Provide a mechanism for every application within CCS to generate unformatted event messages. These unformatted event messages will then be routed to a central process for formatting.
- Format event messages for filtering, logging, and displaying. The EVT will format event messages by accessing a local data store containing all static information about all event messages. This database can be updated by any CCS user.
- Log event messages for the last TBD number of days or TBD number of messages. The EVT will also inform the DMG that event logs containing TBD number of event messages are ready to be archived.
- Filter event messages to other System Monitor (SYM) processes, the CCS Manager (CCM), or any user for additional analysis.
- Provide a mechanism for CCS users to request event messages in real-time and historical modes for display purposes.

The EVT will provide a GUI for event messages that will be displayed in both graphical and textual formats. Event messages will be displayed graphically on a timeline according to the event message type and its source. The textual display of event messages will be displayed textually in a chronological log format. Displays will be color-coded for ease of interpretation. Event messages may be filtered according to the event message type, source, time, and textual searches. Historical event messages may be displayed by requesting a historical event message set from the DMG subsystem via the EVT.